

# MPS Internships in Public Science Education (MPS-IPSE)

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## *Program Solicitation*

**NSF 01-39**

**DIRECTORATE FOR MATHEMATICAL AND PHYSICAL SCIENCES**

**DEADLINE(S): April 2, 2001**



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# SUMMARY OF PROGRAM REQUIREMENTS

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## GENERAL INFORMATION

**Program Title:** MPS Internships in Public Science Education (MPS-IPSE)

**Synopsis of Program:** In order to promote the involvement of the research community in public educational activities, NSF's Directorate for Mathematical and Physical Sciences (MPS) announces the MPS Internships in Public Science Education (IPSE) program. IPSE is intended to bring recent science research results from MPS disciplines to the public by promoting partnerships between the MPS research community and specialists in public science education. The IPSE activity will provide support for undergraduate and graduate students and K-12 teachers to work in conjunction with MPS research scientists, and with professionals at science centers and museums, on projects in public science education.

**Cognizant Program Officer(s):**

- Dr. Henry Blount, Head, MPS/Office of Multidisciplinary Activities, Rm 1005, telephone: 703-292-8803, e-mail: [hblount@nsf.gov](mailto:hblount@nsf.gov).
- Dr. Eileen D. Friel, Executive Officer, MPS, AST, Rm 1045, telephone: 703-292-4895, e-mail: [efriel@nsf.gov](mailto:efriel@nsf.gov).
- Dr. Donald Burland, Executive Officer, MPS, CHE, Rm 1055, telephone: 703-292-4949, e-mail: [dburland@nsf.gov](mailto:dburland@nsf.gov).
- Dr. Deborah Lockhart, Applied Mathematics, Program Director/Cluster Coordinator, MPS, DMS, Rm 1025, telephone: 703-292-4858, e-mail: [dlockhar@nsf.gov](mailto:dlockhar@nsf.gov).
- Dr. Terry Rettig, Special Programs, Program Director, MPS, PHY, Rm 1015, telephone: 703-292-7381, e-mail: [trettig@nsf.gov](mailto:trettig@nsf.gov).
- Dr. Carmen Huber, Program Director, MPS, DMR, Rm 1065, telephone: 703-292-4939, e-mail: [chuber@nsf.gov](mailto:chuber@nsf.gov).

**Applicable Catalog of Federal Domestic Assistance (CFDA) Number(s):**

- 47.049 --- Mathematical and Physical Sciences

## ELIGIBILITY INFORMATION

- **Organization Limit:** Proposals will be accepted from academic institutions in the U.S. and its territories, science centers or museums, and MPS-funded centers, facilities, and institutes. An academic institution is defined here as a college or university granting degrees (2- or 4-year) in any of the MPS disciplines: astronomy, chemistry, materials research, mathematical sciences, and physics. Science centers or museums are defined to be non-profit organizations whose primary mission is public science education, i.e., science centers, museums, visitor centers, etc., with programs or activities in one or more of the MPS disciplines. Proposals must show evidence of partnerships between academic institutions and science centers or museums. Proposals from MPS-funded centers, facilities, or institutes must show the active collaboration of both research scientists and educators from the organization. Partnerships outside the institution are encouraged.
- **PI Eligibility Limit:** A single individual should be designated as Principal Investigator, with at least one individual from each participating organization designated either as co-PI, or in some other way clearly involved at an equivalent level of participation.
- **Limit on Number of Proposals:** None

## AWARD INFORMATION

- **Anticipated Type of Award:** Standard or Continuing Grant
- **Estimated Number of Awards:** 8-10 awards pending availability of funds and the number and quality of proposals received.
- **Anticipated Funding Amount:** Up to \$1 million is expected to be available for this activity in FY2001, pending availability of funds.

## PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

### *A. Proposal Preparation Instructions*

- **Full Proposal Preparation Instructions:** Supplemental Preparation Guidelines
  - The program announcement/solicitation contains supplements to the standard Grant Proposal Guide (GPG) proposal preparation guidelines. Please see the full program announcement/solicitation for further information.

### ***B. Budgetary Information***

- **Cost Sharing Requirements:** Cost Sharing is not required
- **Indirect Cost (F&A) Limitations:** None.
- **Other Budgetary Limitations:** Not Applicable.

### ***C. Deadline/Target Dates***

- **Letter of Intent Due Date(s):** None
- **Preproposal Due Date(s):** None
- **Full Proposal Due Date(s):** April 2, 2001

### ***D. FastLane Requirements***

- **FastLane Submission:** Full Proposal Required
- **FastLane Contact(s):**
  - Ms. Florence Rabanal, FastLane Coordinator, MPS, Rm 1005, telephone: 703-292-8808, e-mail: [mpsoadfl@nsf.gov](mailto:mpsoadfl@nsf.gov).

## **PROPOSAL REVIEW INFORMATION**

- **Merit Review Criteria:** National Science Board approved criteria. Additional merit review considerations apply. Please see the full program announcement/solicitation for further information.

## **AWARD ADMINISTRATION INFORMATION**

- **Award Conditions:** Standard NSF award conditions apply.
- **Reporting Requirements:** Standard NSF reporting requirements apply.

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## **I. INTRODUCTION**

In order to promote the involvement of the research community in public education activities, NSF's Directorate for Mathematical and Physical Sciences (MPS) announces the MPS Internships in Public Science Education (IPSE) program. IPSE is intended to bring recent science research results from MPS disciplines to the public by promoting partnerships between the MPS research community and professionals in public science education.

The program is patterned after two other activities that have been widely and successfully used in MPS disciplines - the Research Experiences for Undergraduates and the Research Experiences for Teachers programs. The IPSE activity will provide support for undergraduate and graduate students and K-12 teachers to work in conjunction with MPS research scientists and with professionals at science centers and museums on projects in public science education. (The term "Science Centers" includes, but is not limited to, visitors' centers associated with MPS-supported facilities.)

Some intended emphases of the program include :

- For students and teachers the activity is intended to provide valuable training by establishing a close working relationship with scientists and with professionals in public science education.
- For undergraduate and graduate students considering careers in science and/or in education, this opportunity is intended to provide experience with activities that will be important in their future. The intention is to provide a solid basis for understanding the process and concepts of science and the experience of communicating them to the public.
- For K-12 teachers, the activity is intended to provide valuable experience that will enrich their classroom environments.
- For science centers and museums, the activity is intended to provide the opportunity to collaborate with talented interns and research scientists who bring new skills and ideas to the development of museum programming and exhibits.
- For faculty and researchers in the MPS disciplines, the activity provides opportunities to bring their latest scientific research results to the public and to gain experience in effective public outreach and education.

## **II. PROGRAM DESCRIPTION**

The MPS Internships in Public Science Education (IPSE) program is intended to bring the most recent science research results from MPS disciplines to the public by promoting partnerships between the MPS research community and professionals in public science education. By its very nature, public science education is intended to reach far beyond the boundaries of the universities, colleges, and research centers where the research is carried out, and to bring to the public a broader awareness of science, its methods, and its most exciting results. Science centers and museums play an important role in informing and educating society by providing an

effective mechanism that brings current, accurate, and compelling scientific concepts and discoveries to the public. The IPSE activity will provide support for undergraduate and graduate students and K-12 teachers to work in conjunction with MPS research scientists and with professionals at science centers and museums on projects in public science education.

IPSE activities should be designed to increase the museum or science center's effectiveness in outreach and public science education through specific projects or exhibits that bring new scientific ideas to museum programming. Examples might include, but are not limited to, the development of new or expanded exhibits, creation of programs such as museum shows and public lectures, or development of specific curricular activities for K-12 teachers or students. In all cases, the projects proposed should demonstrate the active involvement of both research scientists and science center or museum staff in the planning and execution of the project. Because this activity is intended to reach a broad public, and the development of exhibits and programming involves the skills and talents of many people, IPSE is open to students and teachers of all disciplines, including art, writing, museum studies, education, history, as well as science and mathematics. The involvement of minority-serving institutions and the development of projects that serve diverse populations are encouraged.

IPSE is intended to encourage effective partnerships between the MPS research community and science centers and museums. Therefore, proposals should show evidence of active collaborative planning among all the institutions and individuals involved and a commitment to develop an effective and sustained working relationship among the partner institutions. Proposals will be accepted from individual or groups of faculty members at universities and colleges working with a local science center or museum, from a science center or museum working with departments at a university or college, or from MPS-supported research centers, facilities, or institutes with an outreach or educational program.

Proposals must show the active involvement of both a research scientist or scientists in one of the MPS disciplines (astronomy, chemistry, materials research, mathematical sciences, and physics) and science center professionals. Research scientists involved in the projects serve as consultants to the science centers or museums and as scientific advisors to the participants. Museum and science center staff serve as advisors on issues of outreach and education and provide structure and oversight of activities. The participants in the program should have clearly defined activities that exemplify the integration of education and research. The program may include either summer or academic year activities or a combination of both.

### **III. ELIGIBILITY INFORMATION**

Proposals will be accepted from academic institutions in the U.S. and its territories, science centers or museums, and MPS-funded centers, facilities, and institutes. An academic institution is defined here as a college or university granting degrees (2- or 4-year) in any of the MPS disciplines: astronomy, chemistry, materials research, mathematical sciences, and physics. Science centers or museums are defined to be non-profit organizations whose primary mission is public science education, i.e., science centers, museums, visitor centers, etc., with programs or activities in one or more of the MPS disciplines.

Proposals must show evidence of partnerships between academic institutions and science centers or museums. Proposals from MPS-funded centers, facilities, or institutes must show the active collaboration of both research scientists and educators from the organization. Partnerships outside the institution are encouraged. A single individual should be designated as Principal Investigator, with at least one individual from each participating organization designated either as co-PI, or in some other way clearly involved at an equivalent level of participation. Broader partnerships among the community, academe, industry, and the private sector are encouraged. The involvement of minority-serving institutions and the development of projects that serve diverse populations are encouraged.

Eligible participants are students at the undergraduate or graduate level or K-12 teachers. K-12 students are not eligible for support under this activity. Effective public outreach and education relies on contributions and expertise from a broad range of disciplines, and this program encourages the participation of students and professionals from all these areas including the sciences, mathematics, arts, history, education, museum studies, writing, and design. The involvement of both pre-service and in-service K-12 teachers is also encouraged.

#### **IV. AWARD INFORMATION**

Contingent on the availability of funds and on the quality of proposals received, MPS expects to provide a total of up to \$1 Million to support proposals received in response to this solicitation in Fiscal Year 2001. Up to 10 awards may be made. We anticipate that awards will range in size, duration, and complexity. Projects will be funded for durations of up to 3 years and may be renewed.

#### **V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS**

##### **A. Proposal Preparation Instructions**

###### **Full Proposal Instructions:**

Proposals submitted in response to this program announcement/solicitation should be prepared and submitted in accordance with the general guidelines contained in the NSF *Grant Proposal Guide* (GPG). The complete text of the GPG is available electronically on the NSF Web Site at: <http://www.nsf.gov/cgi-bin/getpub?nsf012>. Paper copies of the GPG may be obtained from the NSF Publications Clearinghouse, telephone (301) 947-2722 or by e-mail from [pubs@nsf.gov](mailto:pubs@nsf.gov).

In addition to presenting details of projects that meet the goals of the activity as described in Section II above, proposals are expected to address the following points in the project description (Proposal Section C):

1) Nature of participant activities: Proposals must

- present plans for participant activities, which are expected to focus on one or more specific projects. Participants are not to serve as general summer or year-round help, but are to contribute to the development or implementation of specific projects;
- provide a clear description of each participant's role in the project and the nature of his or her work;
- describe plans for interaction between student/teacher, the research scientist, and the museum and science center staff;
- present a clear schedule for participant activities, including the nature of summer and/or academic year involvement.

2) The environment: Proposals must

- describe the environment and facilities available to support the activities, both at the research institution and the science center or museum;
- outline clearly the need for any additional facilities or equipment required for use by the participants.

3) Recruitment and selection of participants: Proposals must

- describe plans for participant recruitment and selection, including what effort will be made to attract members of underrepresented groups. If candidate students or teachers have been identified at the time of the proposal, a brief biographical sketch for each participant should be included in Proposal Section E;
- present details on the number of planned participants and the nature of their qualifications. The proposed balance of undergraduate and graduate students and K-12 teachers should also be discussed and justified in terms of the benefit to the participants and to the project.

4) Project Outcome and Evaluation: Proposals must

- describe plans for evaluating the program in terms of its impact on the participants;
- address a plan for evaluation and assessment of the program and its effectiveness in reaching the community served by the science center or museum;
- address the impact the projects will have on the community through, for example, the size and nature of the population served;

- address plans for the dissemination of resulting projects, exhibits, or curriculum to a wider audience;
- address the need for ongoing maintenance and necessary staffing for projects, and plans for meeting these needs.

Proposals for large projects, i.e., those involving three or more co-principal investigators, should address explicitly plans for project management, sustained activity beyond the grant period, and project maintenance and continued staffing as necessary. These proposals will be treated as Collaborative Proposals and must follow the guidelines for this type of proposal in the Grant Proposal Guide. In particular, the PI is strongly encouraged to contact an MPS Program Officer regarding the appropriate format of the collaborative proposal.

5) Proposal Budget: The proposal should include a detailed project budget and budget justification. The budget justification should explain and justify major cost items, any unusual situations, requests for equipment or materials, and any proposed institutional cost sharing. Project costs may include items such as salary for faculty or senior personnel, participant housing, travel, or use of computing facilities, equipment or exhibit material, and material for project dissemination. The presentation of results at professional meetings is encouraged and requests for participant travel to meetings for presentations is expected as part of the student or teacher experience. Requests for salary support for the PI and co-PI should be entered under Senior Personnel (line A), but support for all other individuals involved should be entered under Participant Support Costs (line F) of the budget pages.

As a guide to budget preparation, undergraduate student stipends for summer projects are expected to be comparable to those of Research Experiences for Undergraduates (REU, NSF00-107) participants, typically at least \$300 per week, with academic year stipends calculated on a pro rata basis. This is a guideline figure, neither a floor nor a ceiling. Salary support for teachers should be based on their annualized salaries, and may include up to 2 months of summer support. Graduate student stipends may include fringe benefits. Costs other than participant support costs are expected not to exceed 50% of the total request.

Proposers are reminded to identify the program solicitation number (NSF 01-39 ) in the program announcement/solicitation block on the proposal Cover Sheet (NSF Form 1207). Compliance with this requirement is critical to determining the relevant proposal processing guidelines. Failure to submit this information may delay processing.

## **B. Budgetary Information**

Cost sharing is not required in proposals submitted under this Program Solicitation.

*Indirect Cost (F&A) Limitations:* None.

## **C. Deadline/Target Dates**

Proposals submitted in response to this announcement/solicitation must be submitted by 5:00 PM, local time on the following date(s):

April 2, 2001

## **D. FastLane Requirements**

Proposers are required to prepare and submit all proposals for this Program Solicitation through the FastLane system. Detailed instructions for proposal preparation and submission via FastLane are available at: <http://www.fastlane.nsf.gov/a1/newstan.htm>. For FastLane user support, call 1-800-673-6188.

*Submission of Signed Cover Sheets.* The signed copy of the proposal Cover Sheet (NSF Form 1207) must be postmarked (or contain a legible proof of mailing date assigned by the carrier) within five working days following proposal submission and be forwarded to the following address:

National Science Foundation  
DIS – FastLane Cover Sheet  
4201 Wilson Blvd.  
Arlington, VA 22230

## **VI. PROPOSAL REVIEW INFORMATION**

### **A. NSF Proposal Review Process**

Reviews of proposals submitted to NSF are solicited from peers with expertise in the substantive area of the proposed research or education project. These reviewers are selected by Program Officers charged with the oversight of the review process. NSF invites the proposer to suggest at the time of submission, the names of appropriate or inappropriate reviewers. Care is taken to ensure that reviewers have no conflicts with the proposer. Special efforts are made to recruit reviewers from non-academic institutions, minority-serving institutions, or adjacent disciplines to that principally addressed in the proposal.

Proposals will be reviewed against the following general review criteria established by the National Science Board. Following each criterion are potential considerations that the reviewer may employ in the evaluation. These are suggestions and not all will apply to any given proposal. Each reviewer will be asked to address only those that are relevant to the proposal and for which he/she is qualified to make judgements.

#### **What is the intellectual merit of the proposed activity?**

How important is the proposed activity to advancing knowledge and understanding within its own field or across different fields? How well qualified is the proposer (individual or team) to conduct the project? (If appropriate, the reviewer will comment on the quality of the prior work.) To what extent does the proposed activity suggest and explore creative and original concepts? How well conceived and organized is the proposed activity? Is there sufficient access to resources?

### **What are the broader impacts of the proposed activity?**

How well does the activity advance discovery and understanding while promoting teaching, training, and learning? How well does the proposed activity broaden the participation of underrepresented groups (e.g., gender, ethnicity, disability, geographic, etc.)? To what extent will it enhance the infrastructure for research and education, such as facilities, instrumentation, networks, and partnerships? Will the results be disseminated broadly to enhance scientific and technological understanding? What may be the benefits of the proposed activity to society?

Principal Investigators should address the following elements in their proposal to provide reviewers with the information necessary to respond fully to both of the above-described NSF merit review criteria. NSF staff will give these elements careful consideration in making funding decisions.

#### ***Integration of Research and Education***

One of the principal strategies in support of NSF's goals is to foster integration of research and education through the programs, projects, and activities it supports at academic and research institutions. These institutions provide abundant opportunities where individuals may concurrently assume responsibilities as researchers, educators, and students and where all can engage in joint efforts that infuse education with the excitement of discovery and enrich research through the diversity of learning perspectives.

#### ***Integrating Diversity into NSF Programs, Projects, and Activities***

Broadening opportunities and enabling the participation of all citizens -- women and men, underrepresented minorities, and persons with disabilities -- is essential to the health and vitality of science and engineering. NSF is committed to this principle of diversity and deems it central to the programs, projects, and activities it considers and supports.

#### **Additional Review Criteria**

In addition to the above criteria, other factors will be considered in the evaluation process. Reviewers will be asked to use the following criteria when reviewing proposals submitted in response to this announcement:

- Appropriateness of the proposed activities for the participants and institutions involved;
- Effective involvement of students or teachers;
- Ability of the project to bring current science in the MPS disciplines to the public;
- Substantive involvement of research scientists in all phases of the project, including evidence of a significant role for the scientists in designing, advising, and supervising projects, as well as in the mentoring of participants;
- Effectiveness of the plan for evaluation and assessment;
- Effectiveness of the partnership, its potential to result in a sustained partnership among all participating institutions, and the extent of the institutional commitment to the program by all institutions involved;

- Effectiveness at involving faculty and participants from underrepresented groups and of reaching members of the public from these groups;
- Additional criteria for large projects: breadth of impact on the public; effectiveness of plan for dissemination; potential for serving as a model; and plan for project management.

A summary rating and accompanying narrative will be completed and signed by each reviewer. In all cases, reviews are treated as confidential documents. Verbatim copies of reviews, excluding the names of the reviewers, are sent to the Principal Investigator/Project Director by the Program Director. In addition, the proposer will receive an explanation of the decision to award or decline funding.

### **B. Review Protocol and Associated Customer Service Standard**

All proposals are carefully reviewed by at least three other persons outside NSF who are experts in the particular field represented by the proposal. Proposals submitted in response to this announcement/solicitation will be reviewed by Mail and/or panel review.

Reviewers will be asked to formulate a recommendation to either support or decline each proposal. The Program Officer assigned to manage the proposal's review will consider the advice of reviewers and will formulate a recommendation.

NSF will be able to tell applicants whether their proposals have been declined or recommended for funding within six months for 95 percent of proposals. The time interval begins on the proposal deadline or target date or from the date of receipt, if deadlines or target dates are not used by the program. The interval ends when the Division Director accepts the Program Officer's recommendation.

In all cases, after programmatic approval has been obtained, the proposals recommended for funding will be forwarded to the Division of Grants and Agreements for review of business, financial, and policy implications and the processing and issuance of a grant or other agreement. Proposers are cautioned that only a Grants and Agreements Officer may make commitments, obligations or awards on behalf of NSF or authorize the expenditure of funds. No commitment on the part of NSF should be inferred from technical or budgetary discussions with a NSF Program Officer. A Principal Investigator or organization that makes financial or personnel commitments in the absence of a grant or cooperative agreement signed by the NSF Grants and Agreements Officer does so at its own risk.

## VII. AWARD ADMINISTRATION INFORMATION

### A. Notification of the Award

Notification of the award is made to *the submitting organization* by a Grants Officer in the Division of Grants and Agreements. Organizations whose proposals are declined will be advised as promptly as possible by the cognizant NSF Program Division administering the program. Verbatim copies of reviews, not including the identity of the reviewer, will be provided automatically to the Principal Investigator. (See section VI.A. for additional information on the review process.)

### B. Award Conditions

An NSF award consists of: (1) the award letter, which includes any special provisions applicable to the award and any numbered amendments thereto; (2) the budget, which indicates the amounts, by categories of expense, on which NSF has based its support (or otherwise communicates any specific approvals or disapprovals of proposed expenditures); (3) the proposal referenced in the award letter; (4) the applicable award conditions, such as Grant General Conditions (NSF-GC-1)\* or Federal Demonstration Partnership (FDP) Terms and Conditions \* and (5) any announcement or other NSF issuance that may be incorporated by reference in the award letter. Cooperative agreement awards also are administered in accordance with NSF Cooperative Agreement Terms and Conditions (CA-1). Electronic mail notification is the preferred way to transmit NSF awards to organizations that have electronic mail capabilities and have requested such notification from the Division of Grants and Agreements.

\*These documents may be accessed electronically on NSF's Web site at [http://www.nsf.gov/home/grants/grants\\_gac.htm](http://www.nsf.gov/home/grants/grants_gac.htm). Paper copies may be obtained from the NSF Publications Clearinghouse, telephone (301) 947-2722 or by e-mail from [pubs@nsf.gov](mailto:pubs@nsf.gov).

More comprehensive information on NSF Award Conditions is contained in the NSF *Grant Policy Manual* (GPM) Chapter II, available electronically on the NSF Web site at <http://www.nsf.gov/cgi-bin/getpub?gpm>. The GPM is also for sale through the Superintendent of Documents, Government Printing Office (GPO), Washington, DC 20402. The telephone number at GPO for subscription information is (202) 512-1800. The GPM may be ordered through the GPO Web site at <http://www.gpo.gov>.

### C. Reporting Requirements

For all multi-year grants (including both standard and continuing grants), the PI must submit an annual project report to the cognizant Program Officer at least 90 days before the end of the current budget period.

Within 90 days after the expiration of an award, the PI also is required to submit a final project report. Approximately 30 days before expiration, NSF will send a notice to remind the PI of the requirement to file the final project report. Failure to provide final technical reports delays NSF review and processing of pending proposals for that PI. PIs should examine the formats of the required reports in advance to assure availability of required data.

NSF has implemented an electronic project reporting system, available through FastLane. This system permits electronic submission and updating of project reports, including information on project participants (individual and organizational), activities and findings, publications, and other specific products and contributions. PIs will not be required to re-enter information previously provided, either with a proposal or in earlier updates using the electronic system.

## VIII. CONTACTS FOR ADDITIONAL INFORMATION

General inquiries regarding MPS Internships in Public Science Education should be made to:

- Dr. Henry Blount, Head, MPS/Office of Multidisciplinary Activities, Rm 1005, telephone: 703-292-8803, e-mail: [hblount@nsf.gov](mailto:hblount@nsf.gov).
- Dr. Eileen D. Friel, Executive Officer, MPS, AST, Rm 1045, telephone: 703-292-4895, e-mail: [efriel@nsf.gov](mailto:efriel@nsf.gov).
- Dr. Donald Burland, Executive Officer, MPS, CHE, Rm 1055, telephone: 703-292-4949, e-mail: [dburland@nsf.gov](mailto:dburland@nsf.gov).
- Dr. Deborah Lockhart, Applied Mathematics, Program Director/Cluster Coordinator, MPS, DMS, Rm 1025, telephone: 703-292-4858, e-mail: [dlockhar@nsf.gov](mailto:dlockhar@nsf.gov).
- Dr. Terry Rettig, Special Programs, Program Director, MPS, PHY, Rm 1015, telephone: 703-292-7381, e-mail: [trettig@nsf.gov](mailto:trettig@nsf.gov).
- Dr. Carmen Huber, Program Director, MPS, DMR, Rm 1065, telephone: 703-292-4939, e-mail: [chuber@nsf.gov](mailto:chuber@nsf.gov).

For questions related to the use of FastLane, contact:

- Ms. Florence Rabanal, FastLane Coordinator, MPS, Rm 1005, telephone: 703-292-8808, e-mail: [mpsoadfl@nsf.gov](mailto:mpsoadfl@nsf.gov).

## IX. OTHER PROGRAMS OF INTEREST

The NSF *Guide to Programs* is a compilation of funding for research and education in science, mathematics, and engineering. The NSF *Guide to Programs* is available electronically at <http://www.nsf.gov/cgi-bin/getpub?gp>. General descriptions of NSF programs, research areas, and eligibility information for proposal submission are provided in each chapter.

Many NSF programs offer announcements or solicitations concerning specific proposal requirements. To obtain additional information about these requirements, contact the appropriate NSF program offices. Any changes in NSF's fiscal year programs occurring after press time for the *Guide to Programs* will be announced in the NSF [E-Bulletin](#), which is updated daily on the NSF web site at <http://www.nsf.gov/home/ebulletin>, and in individual program

announcements/solicitations. Subscribers can also sign up for NSF's [Custom News Service](http://www.nsf.gov/home/cns/start.htm) (<http://www.nsf.gov/home/cns/start.htm>) to be notified of new funding opportunities that become available.

The Informal Science Education (ISE) Program within the Division of Elementary, Secondary, and Informal Education also supports activities in public science education, including ISE Supplements for Public Understanding of Research. Information on these programs can be found at <http://www.nsf.gov/cgi-bin/getpub?nsf0099>

## **ABOUT THE NATIONAL SCIENCE FOUNDATION**

The National Science Foundation (NSF) funds research and education in most fields of science and engineering. Awardees are wholly responsible for conducting their project activities and preparing the results for publication. Thus, the Foundation does not assume responsibility for such findings or their interpretation.

NSF welcomes proposals from all qualified scientists, engineers and educators. The Foundation strongly encourages women, minorities and persons with disabilities to compete fully in its programs. In accordance with Federal statutes, regulations and NSF policies, no person on grounds of race, color, age, sex, national origin or disability shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving financial assistance from NSF (unless otherwise specified in the eligibility requirements for a particular program).

Facilitation Awards for Scientists and Engineers with Disabilities (FASSED) provide funding for special assistance or equipment to enable persons with disabilities (investigators and other staff, including student research assistants) to work on NSF-supported projects. See the program announcement/solicitation for further information.

The National Science Foundation has Telephonic Device for the Deaf (TDD) and Federal Information Relay Service (FIRS) capabilities that enable individuals with hearing impairments to communicate with the Foundation about NSF programs, employment or general information. TDD may be accessed at (703) 292-5090, FIRS at 1-800-877-8339.

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## PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

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